

# Job Title: CIVIL ENGINEER VI - SAFETY DESIGN UNIT CHIEF - IPR#46551

**Agency :** Department of Transportation

**Closing Date/Time:** 05/08/2023

**Salary:** \$7,085 - \$11,020 Monthly

**Job Type:** Salaried Full Time

**County:** Sangamon

**Number of Vacancies:** 1

**Plan/BU:** NR916 - Protech Teamsters

**\*This position is covered by the Revolving Door Prohibition Policy.**

**This position is a union position; therefore, provisions of the relevant collective bargaining agreement/labor contract apply to the filling of this position.**

**All applicants who want to be considered for this position MUST apply electronically through the [illinois.jobs2web.com](https://illinois.jobs2web.com) website. State of Illinois employees should click the link near the top left to apply through the SuccessFactors employee career portal.**

**Applications submitted via email or any paper manner (mail, fax, hand delivery) will not be considered.**

## Agency Mission Statement

The Illinois Department of Transportation is seeking to hire a Safety Design Unit Chief.

The IDOT team works diligently to provide safe, cost-effective transportation for Illinois in ways that enhance quality of life, promote economic prosperity and protect our environment. We are problem solvers and leaders, constantly searching for innovations and improvements in support of our commitment to providing the best multimodal transportation system for Illinois.

Our team fosters a culture of inclusivity. We value diversity and hold ourselves to the highest ethical standards as we work together for a common purpose. Team members frequently collaborate with colleagues and others outside the department to best meet customer needs.

The department offers extensive training and career advancement opportunities. Employees also receive a robust benefit package including:

- Monday-Friday work schedule
- Flexible work schedules are available in many program areas.
- Health, Life, Vision, and Dental Insurance
- Pension Plan
- (10) Weeks paid Maternity/Paternity Leave
- Deferred Compensation Program and other pre-tax benefit programs (Medical/Daycare)
- Employees earn (12) paid Sick Days annually.
- New Employees earn (10) paid Vacation Days their first year of service and can earn up to (25) paid Vacation Days annually.
- Employees earn (3) paid Personal Days annually.
- (13-14) paid holidays annually (based on start date)
- Tuition Reimbursement

We invite qualified applicants to apply to become part of our team. We are confident that you will take pride in serving Illinois and its residents and visitors.

## Job Responsibilities

This position is accountable for managing state-of-the-practice published research on state-of-the-art safety related topics and developing and implementing policies and initiatives related to implementation of the Highway Safety Manual (HSM). The incumbent is responsible for reviewing recommendations to revise existing policies or to develop new policies. This position provides statewide technical guidance and general direction on proper highway clear zones and roadside treatments. The incumbent administers the statewide safety crash analysis to identify patterns with specific roadway designs and recommends mitigating measures. S/He administers the Highway Safety Improvement Program (HSIP) identified by the regulations set forth in Title 23 of the Code of

Federal Regulations, Part 924 Highways Safety Improvement Program and Title 23 and 49 of the United States Code. The incumbent is responsible for coordinating statewide roadside safety assessments (RSAs).

Programs overseen:	RSAs, guardrail, end section, median barriers, clear zones, safety audits, and HSIP
Value of safety programs overseen:	\$40+ million annually
Value of construction projects overseen:	\$1.3 billion annually
Training overseen:	3 - 5 annually

This position reports to the Safety Policy and Initiatives Engineer. Reporting to this position are the Safety Design Engineer, Senior Safety Evaluation Engineer, Safety Design Evaluation Services Engineer, Safety Design Evaluation Engineer (Civil Engineer II), Safety Design Evaluation Engineer (Civil Engineer I), and Safety Design Evaluation Engineer (Civil Engineer Trainee).

This position works in an environment where it is essential to be current in their knowledge of innovative safety design practices. The incumbent is responsible for managing and recommending policies and procedures concerning roadside safety assessments and the Highway Safety Improvement Program (HSIP) as well as guardrail, guardrail end sections, median barriers, and other roadside safety items. The environment of safety policies and procedures includes the administration of the review and analysis of technical research reports and the coordination and communications with internal and external personnel. S/He represents the department on various national committees, task forces, and pooled fund studies. The incumbent provides recommendations and feedback that benefit the department's safety efforts and is responsible for providing safety training to department staff.

Typical problems in this position involve the continual oversight of research papers, federal notices, new equipment, hardware, devices, and product literature. In addition, in-house and industry recommendations for new and/or revised policies must be administered with the objective of determining applicability to departmental interest and goals. The greatest challenge of this position is to identify safety strategies and produce meaningful, cost-effective, and timely policies for a wide range of highway safety features.

### **(Job Responsibilities continued)**

The incumbent maintains lists of approved and qualified roadside hardware to keep the department up to date on the latest developments and replies to inquiries from district staff regarding the HSIP, RSAs, and roadway safety strategies. S/He administers technical correspondence and reports on safety issues, oversees on-site review of hazardous roadways, and reviews pertinent documentation. The incumbent oversees the HSIP review committee and development of dissemination of standards, procedures, and policies relative to highway safety needs. S/He coordinates with policy development units in the Bureau of Design and Environment, other central bureaus, other states, and the Federal Highway Administration (FHWA) to ensure that proposed policies are uniform.

The incumbent accomplishes accountabilities through the following staff:

Safety Design Engineer, who develops and implements initiatives related to implementation of the HSM; performance of (RSAs; and management of state-of-the practice published research on state-of-the art guardrail and median barrier end sections, roadside and median barriers, and other roadside appurtenances.

Senior Safety Evaluation Engineer, who is responsible for publishing research on state-of-the-art guardrail and median barrier end sections, roadside and median barriers, and other roadside appurtenances and making recommendations to revise existing policies and/or to develop new policies.

Safety Design Evaluation Services Engineer, who reviews crash data to identify patterns with specific roadway designs and assists in developing mitigating measures. This position performs crash trend analysis to assist district staff in identifying engineering opportunities for reducing fatal and severe injury crashes in relation to state highway projects.

Safety Design Evaluation Engineer (Civil Engineer II), who reviews crash data to identify patterns with specific roadway designs and assists in developing mitigating issues.

Safety Design Evaluation Engineer (Civil Engineer I), who assists in the evaluation of best practiced published research on roadside appurtenances, revisions to existing policies, and development of new policies as well as addresses work zone safety issues.

Safety Design Evaluation Engineer (Civil Engineer Trainee), who assists in the evaluation of state-of-the-practice published research on state-of-the-art roadside appurtenances, revisions to existing policies, and development of new policies as well as analyzes roadway safety issues.

### **(Job Responsibilities continued)**

The incumbent has wide latitude in accomplishing responsibilities. S/He consults with the Safety Policies and Initiatives Engineer on unusually complicated or controversial issues. This position is constrained by departmental regulations, policies, and procedures as well as federal and state laws.

Internally, the incumbent has regular contact with staff in other central bureaus in the Office of Highways Project Implementation and Office of Planning and Programming as well as district offices. Externally, contacts are frequently made with staff in the industry, FHWA, and with other state and local highway agencies and research consultants. S/He is in frequent contact with district staff to assist in interpreting design policies relating to safety and design deviation request. This position requires occasional travel within the state for safety related issues and outside the state for technical meetings and/or training, which may include overnight stays.

The effectiveness of this position is measured by the ability of the incumbent to manage the appropriate safety programs; resolve differences of opinions on safety design problems; and disseminate timely and effective standards, procedures, and policies which result in safe, cost-effective traffic operations.

### **Principal Accountabilities**

- Identifies and recommends safety strategies based on statewide crash analyses.
- Manages and recommends policies and procedures concerning roadside safety assessments, Highway Safety Improvement Program, guardrail, guardrail end section, median barriers, and other roadside safety items.
- Administers the federal and state safety programs including the HSIP and RSAs.
- Manages statewide training of proper procedures and policies regarding conducting roadside safety analyses, roadside safety, and other safety programs.
- Administers technical correspondence and reports of safety issues.
- Plans, organizes, directs, and controls the Safety Design Unit's efforts in a timely, cost-effective manner.
- Oversees on-site technical reviews and pertinent documentation.
- Oversees the development and dissemination of standards, procedures, and policies relative to highway safety needs.
- Consults with policy development staff in the Bureau of Design and Environment, other central bureaus, other states and FHWA to ensure that proposed policies are uniform.
- Represents the department on national safety committees, task forces, and pooled fund studies.
- Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
- Performs other duties as assigned.

### **Qualifications**

#### **Position Requirements**

- Current registration as a Licensed Professional Engineer in the state of Illinois
- Eight years of experience in civil engineering including three years supervising staff and managing engineering functions
- Valid driver's license
- Occasional statewide and out-of-state travel which may include overnight stays

#### **Position Desirables**

- Extensive knowledge of the principles and practices of civil engineering with special emphasis on activities of highway safety
- Extensive knowledge of the modern methods and procedures of public works engineering
- Ability to develop and maintain cooperative relationships with staff and the public
- Ability to interpret and enforce policies
- Strong oral and written communication skills

**Work Hours:** 8:00 A.M. - 4:30 P.M. Monday-Friday

**Work Location:** 2300 S Dirksen Pkwy Springfield, IL 62764-0001

**Office:** Office of Highways Project Implementation/Bureau of Safety Programs and Engineering

**Agency Contact:** [DOT.CONTACTHR@ILLINOIS.GOV](mailto:DOT.CONTACTHR@ILLINOIS.GOV)

**Job Family:** Transportation; Leadership & Management; Science, Technology, Engineering & Mathematics

## **APPLICATION INSTRUCTIONS**

Use the “Apply” button at the top right or bottom right of this posting to begin the application process.

If you are not already signed in, you will be prompted to do so.

State employees should sign in to the career portal for State of Illinois employees – a link is available at the top left of the [Illinois.jobs2web.com](http://Illinois.jobs2web.com) homepage in the blue ribbon.

Non-State employees should log in on the using the “View Profile” link in the top right of the [Illinois.jobs2web.com](http://Illinois.jobs2web.com) homepage in the blue ribbon. If you have never before signed in, you will be prompted to create an account.

If you have questions about how to apply, please see the following resources:

State employees: Log in to the career portal for State employees and review the Internal Candidate Application Job Aid

Non-State employees: on [Illinois.jobs2web.com](http://Illinois.jobs2web.com) – click “Application Procedures” in the footer of every page of the website.

The main form of communication will be through email. Please check your “junk mail”, “spam”, or “other” folder for communication(s) regarding any submitted application(s). You may receive emails from the following addresses:

- [donotreply@SIL-P1.ns2cloud.com](mailto:donotreply@SIL-P1.ns2cloud.com)
- [systems@SIL-P1.ns2cloud.com](mailto:systems@SIL-P1.ns2cloud.com)